means operative when said main frame is in said first position for separating said main frame and a subframe received therein from a disk received therein, whereby said disk may be read by said disk reader.

6. The disk storage and playback device of claim 5, wherein said separating means comprises means for supporting said disk in said disk-reading position and means for displacing said main frame and said subframe received therein to a position nonobstructive to said

7. A disk storage and playback device comprising: a chassis:

an n quantity of subframes, each of said subframes being adapted to receive a single disk;

a magazine, nondetachable, carried by said chassis, said magazine being adapted to receive a quantity of said subframes;

n-1 of said subframes being received in said magazine when one of a subframes is received in said

adisk reader adapted to read one of said disks when

said mainframe being adapted to receive a single one of said subframes, said mainframe being movably carried by said chassis for movement between a first position, whereat a disk carried therein is in said disk reading position, and a second position whereat access is provided to a subframe received therein such that a disk may be inserted therein;

and disk conveying means for transporting a selected one of said subframes from said magazine to said main frame when said main frame is in said first position.

8. A disk storage and playback device comprising:

a chassis:
a magazine nondetachably carried by said chassis;
said magazine including a plurality of disk storage
locations therein;

a disk reader;

means for displacing said magazine to align a desired one of said disk storage locations at a desired level; first disk transport means for moving a disk in said desired one of said disk storage locations in a substantially straight line from said magazine to said

disk reader;
said first disk transport means being further effective for moving said disk from said disk teader back to its respective disk storage location;

second disk transport means for moving a disk in a substantially straight line from outside said disk storage and playback device to said disk reader; and

means, effective without requiring reading of said disk, for moving said disk from said second disk transport means to said first disk transport means, whereby said first disk transport means is enabled to deposit said disk, originating outside said device, in an empty one of said disk storage locations, thereby permitting stocking said magazine with

9. Apparatus according to claim 8, further compris-

means effective without requiring reading of said disk, for moving said disk from said first transport means to said second transport means; and means for permitting said second transport means to

means for permitting said second transport means to move said disk to a location outside the device, whereby disks stocked in said magazine may be removed from the device.

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a mainframe;

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<u>said</u>

9. 60 ing:

1	<u>10.</u>	A device for storing and playing disks comprising:
2		a chassis;
3		a disk reader accepting disks situated at a read position;
4	wagaturk	storage means for storing a plurality of said disks;
5		said storage means being nondetachably carried in said chassis;
6		said storage means including a plurality of storage positions, each for
7	accep	ting a single one of said disks, arranged in a concentric stack;
8		transport means for transporting said disks between an access
9	positi	on, said storage means, and said read position;
10		said transport means transporting said disks along a single
11	substa	antially planar path parallel to a plane of a surface of said disks and
12	fixed	relative to said chassis;
13		means for aligning a selectable one of said storage positions with
14	said s	ingle substantially planar path of said transport means; and
15		said access position permitting external access for loading and
16	<u>unloa</u>	ding a single one of said disks, to and from, respectively, said storage
17	mean	s.
1	<u>11.</u>	A device for storing and playing disks comprising:
2		a chassis;
3		a disk reader accepting disks situated at a read position;
4		storage means for storing a plurality of said disks;
5		said storage means including a plurality of storage positions, each for
6	accep	ting a single one of said disks, arranged in a concentric stack;
7		transport means for transporting said disks between an access
8	position	on, said storage means, and said read position;
9		said transport means transporting said disks along a single
10	substa	antially planar path parallel to a plane of a surface of said disks and
11	fixed	relative to said chassis;
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12	means for aligning a selectable one of said storage positions with
13	said single substantially planar path of said transport means;
14	said single substantially planar path being orthogonal to a direction
15	of alignment of said storage means; and
16	said access position permitting external access for loading and
17	unloading a single one of said disks, to and from, respectively, said
18	transport means.
1	12. A device for storing and playing disks comprising:
2	a chassis;
3	a disk reader accepting disks situated at a read position;
4	storage means for storing a plurality of said disks;
5	said storage means being nondetachably carried in said chassis;
6	said storage means including a plurality of concentric storage
7	positions, each for accepting a single one of said disks;
8	transport means for transporting said disks between said storage
9	means and said read position;
10	said transport means transporting said disks in a single plane fixed
11	relative to said chassis and parallel to a surface of said disks transported
12	means for aligning a selectable one of said storage positions with
13	said single plane of said transport means;
14	said chassis defining an access aperture aligned with said single
15	plane and permitting external access for loading and unloading a single one
16	of said disks to and from said selected one of said storage positions in said
17	storage means; and
18	ejection means for ejecting one of said disks, contained within said
19	selected one of said storage locations, through said access aperture.
1	13. A device for storing and playing disks comprising:
2	a chassis;

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3	a disk reader accepting disks situated at a read position;
4	storage means for storing a plurality of said disks;
5	said storage means being nondetachably carried in said chassis;
6	said storage means including a plurality of concentric storage
7	positions each for accepting a single one of said disks;
8	transport means for transporting said disks between said storage
9	means and said read position;
10	said transport means transporting said disks in a single plane parallel
11	to a surface of said disks transported and fixed relative to said chassis;
12	means for aligning a selectable one of said storage positions with
13	said single plane of said transport means;
14	said chassis defining an access aperture permitting external access
15	for loading and unloading a single one of said disks, to and from said read
16	position; and
17	ejection means for ejecting said single one of said disks from said
18	read position to said access aperture for purposes of unloading.
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1	14. A device for storing and playing disks comprising:
2	a chassis;
3	a disk reader accepting disks situated at a read position;
4	storage means for storing a plurality of said disks;
5	said storage means being nondetachably carried in said chassis;
6	said storage means including a plurality of concentric storage
7	positions, each for accepting a single one of said disks;
8	transport means for transporting said disks between said storage
9	means and said read position;
10	said transport means transporting said disks in a single plane parallel
11	to a surface of said disks transported and fixed relative to said chassis;
12	means for aligning a selectable one of said storage positions with
13	said single plane of said transport means;

14	said chassis defining an access aperture, aligned with said single
15	plane, permitting external access for loading and unloading a single one of
16	said disks, to and from, said selected one of said storage positions in said
17	storage means while said storage means remains unexposed and within the
18	storage and playback device;
19	ejection means for ejecting said single one of said disks contained
20	within said selected one of said storage locations to an exposed position at
21	said access aperture; and
22	said ejection means functioning in said single plane of said transport
23	means.
1	15. A device for storing and playing disks comprising:
2	a chassis;
3	a disk reader accepting disks situated at a read position;
4	storage means for storing a plurality of said disks;
5	said storage means being nondetachably carried in said chassis;
6	said storage means including a plurality of concentric storage
7	positions, each for accepting a single one of said disks;
8	a chassis defining an access aperture permitting external access for
9	loading and unloading one of said disks, to and from, said storage and
10	playback device;
11	said access aperture, said read position, and a selected one of said
12	storage positions defining a single plane fixed relative to said chassis;
13	means for aligning said selected one of said storage positions with
14	said single plane; and
15	transport means for transporting said disks substantially within said
16	single plane and within said storage and playback device such that said
17	disks may be stored, read, unloaded, and loaded through said access
18	aperture to and from a position extending outside said chassis.
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1	16. A device for storing and playing disks comprising:
2	<u>a chassis;</u>
3	a disk reader accepting disks situated at a read position;
4	storage means for storing a plurality of said disks;
5	said storage means being nondetachably carried in said chassis
6	said storage means including a plurality of storage positions each for
7	accepting a single one of said disks;
8	transport means for transporting one of said disks between an access
9	position, said selectable one of said storage positions, and said read
10	position;
11	said transport means transporting said one of said disks along a first
12	substantially linear path between said access position and said storage
13	means:
14	said transport means transporting said one of said disks along a
15	second substantially linear path between said access position and said read
16	position;
17	said first and second substantially linear paths being within a single
18	transport plane fixed relative to said chassis;
19	means for aligning a selectable one of said storage positions with
20	said single transport plane; and
21	said access position permitting external access for inserting and
22	removing a single one of said disks, to and from, respectively, said transport
23	means.
1	17. A device for storing and playing disks comprising:
2	a chassis;
3	a disk reader accepting disks situated at a read position;
4	storage means for storing a plurality of said disks;
5	said storage means being nondetachably carried in said chassis;

6	said storage means including a plurality of storage positions each for
7	accepting a single one of said disks;
8	transport means for transporting one of said disks between an access
9	position, said selectable one of said storage positions, and said read
10	position
11	said transport means transporting said one of said disks along a first
12	substantially linear path between said access position and said storage
13	means;
14	said transport means transporting said one of said disks along a
15	second substantially linear path between said storage means and said read
16	position;
17	said first and second substantially linear paths being within a single
18	transport plane fixed relative to said chassis;
19	means for aligning a selectable one of said storage positions with
20	said single transport plane; and
21	said access position permitting external access for inserting and
22	removing a single one of said disks, to and from, respectively, said transport
23	means.
1	18. A device for storing and playing disks comprising:
2	a chassis;
3	a disk reader accepting a disk situated at a read position;
4	storage means for storing a plurality of said disks;
5	said storage means being nondetachably carried in said chassis;
6	said storage means including a plurality of storage positions each for
7	accepting a single one of said disks;
8	transport means for transporting one of said disks between an access
9	position, said selectable one of said storage positions, and said read
10	position;
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11	said transport means transporting said one of said disks along a first
12	substantially linear path between said access position and said read
13	position;
14	said transport means transporting said one of said disks along a
15	second substantially linear path between said storage means and said read
16	position;
17	said first and second substantially linear paths being within a
18	transport plane fixed relative to said chassis;
19	means for aligning a selectable one of said storage positions with
20	said transport plane; and
21	said access position permitting external access for inserting and
22	removing a single one of said disks, to and from, respectively, said transport
23	means.
1	19. A device for storing and playing disks comprising:
2	a chassis;
3	a disk reader accepting a disk situated at a read position;
4	storage means for storing a plurality of said disks;
5	said storage means being nondetachably carried in said chassis;
6	said storage means including a plurality of storage positions each for
7	accepting a single one of said disks;
8	transport means for transporting one of said disks;
9	means for aligning a selectable one of said storage positions with
10	said transport means;
11	said transport means transporting said one of said disks between an
12	access position, said selectable one of said storage positions, and said read
13	position;
14	said transport means transporting said disks along a substantially
15	linear path in a single plane parallel to a surface of said disks and fixed
16	relative to said chassis;

17	said transport means being fixed, relative to said chassis, in a
18	direction orthogonal to said single plane; and
19	said access position permitting external access for inserting and
20	removing said disks, to and from, respectively, said storage means.
1	20. A device for storing and playing disks comprising:
2	a chassis;
3	a mainframe for carrying disks;
4	a magazine, non-detachably carried in said chassis, having a plurality
5	of means for holding disks in a concentric array;
6	a disk reader including means for reading disks at a first position in
7	alignment with said disk reader;
8	first disk transport means for transporting disks between said
9	magazine and said mainframe at said first position along a first straight line
10	path;
11	second disk transport means for transporting said mainframe along
12	a second straight line path between said first position and an access
13	position whereat disks are loaded and unloaded to and from said device;
14	means for selectively aligning said first disk transport means and said
15	magazine for transporting a selected disk to and from said magazine; and
16	means for controlling said first and second transport means to
17	enable loading and unloading of said magazine via said access position
18	without said disk reader reading said disk.
1	21. A device for storing and playing disks comprising:
2	a chassis;
3	a magazine, non-detachably carried in said chassis, having a plurality
4	of means for holding disks in a concentric array;
5	a disk reader for reading disks at a first position in alignment with
6	said disk reader;

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7	a mainframe for accepting one of said disks;
8	first disk transport means for transporting a selected disk between
9	said magazine and said mainframe at said first position along a first straight
10	line path in a plane of said disk;
11	second disk transport means for transporting said mainframe
12	between said first position and an access position, whereat disks are loaded
13	and unloaded to and from said device, along a second straight line path;
14	means for selectively aligning said first disk transport means and said
15	magazine for transporting a selected disk to and from said magazine;
16	means for displacing said selected disk from said first position to a
17	reader engaged position at said disk reader for reading; and
18	means for controlling said first and second transport means to
19	enable loading and unloading of said magazine via said access position
20	without said disk reader reading said disk.
1	22. A device for storing and playing disks comprising:
2	a chassis;
3	subframes for carrying disks;
4	a magazine, non-detachably carried in said chassis, having a plurality
5	of means for holding said subframes in a concentric array;
6	a disk reader having a turntable for reading disks at a first position
7	in alignment with said disk reader;
8	a mainframe for accepting one of said subframes;
9	first disk transport means for transporting a selected disk in one of
10	said subframes between said magazine and said mainframe at said first
11	position;
12	second disk transport means for transporting said mainframe
13	between said first position and an access position whereat disks are loaded
14	and unloaded to and from said device;

15	means for displacing said selected disk from said first position	to
16	said turntable of said disk reader; and	
17	means for controlling said first and second transport means	to
18	enable loading and unloading of said magazine via said access posit	<u>ion</u>
19	without said disk reader reading said disk.	
1	23. A device for storing and playing disks comprising:	
2	a chassis;	
3	subframes for carrying disks;	
4	a magazine, non-detachably carried in said chassis, having a plura	lity
5	of means for holding said subframes in a concentric array;	
6	a disk reader having a turntable for reading disks at a first posit	<u>ion</u>
7	in alignment with said disk reader;	
8	first disk transport means for transporting a selected disk on one	<u>of</u>
9	said subframes between said magazine and said first position;	
10	second disk transport means for transporting said selected d	<u>lisk</u>
11	between said first position and an access position whereat disks are load	<u>ded</u>
12	and unloaded to and from said device;	
13	means for selectively aligning said first disk transport means and s	aid
14	magazine for transporting said selected disk to and from said magazin	<u>e;</u>
15	means for displacing said selected disk from said first position	<u>to</u>
16	said turntable of said disk reader; and	
17	means for controlling said first and second transport means	to
18	enable loading and unloading of said magazine via said access posit	ion
19	without said disk reader reading said disk.	
1	24. A device for storing and playing disks comprising:	
2	a chassis;	
3	a magazine non-detachably carried in a non-exposed position wit	<u>:hin</u>
4	said chassis:	

5	said magazine having a plurality of means for holding said disks in
6	a concentric array;
7	a disk reader including a turntable and a means for reading disks at
8	a first position in alignment with said turntable;
9	first disk transport means for transporting a selected disk of said said
10	disks between said magazine and said first position;
11	second disk transport means for transporting said selected disk
12	between said first position and an access position whereat disks are loaded
13	and unloaded to and from said device;
14	means for selectively aligning said first disk transport means and said
15	magazine for transporting said selected disk to and from said magazine;
16	<u>and</u>
17	means for controlling said first and second transport means to
18	enable loading and unloading of said magazine via said access position
19	without said disk reader reading said disk.
1	25. A device for storing and playing disks comprising:
2	a chassis;
3	subframes for carrying disks;
4	a magazine, non-detachably carried in said chassis, having means for
5	holding said subframes in a concentric array;
6	a disk reader;
7	means for transporting a selected one of said subframes between
8	said magazine and an access position whereat a disk is loaded and unload
9	to and from said selected one of said subframes; and
10	means for controlling said means for transporting to enable loading
11	and unloading of said magazine via said assess position without said disk
<u>12</u>	reader reading said disk.

1	26. A device for storing and playing disks comprising:
2	a chassis;
3	subframes for carrying disks;
4	a magazine, non-detachably carried in said chassis;
5	means for holding said subframes in a concentric array in said
6	magazine;
7	a disk reader;
8	a mainframe for accepting one of said subframes;
9	subframe transport means for transporting a selected one of said
10	subframes between said magazine and said mainframe;
11	mainframe transport means for transporting said mainframe between
12	an accept position whereat said selected one of said subframes is accepted
13	and an access position whereat said disk is loaded and unloaded to and
14	from said selected one of said subframes; and
15	means for controlling said means for transporting to enable loading
16	and unloading of said magazine via said access position without said disk
<u>17</u>	reader reading said disk.

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